

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
18 May 2006 (18.05.2006)

PCT

(10) International Publication Number  
WO 2006/053249 A3(51) International Patent Classification:  
A01N 65/00 (2009.01)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/US2005/041018(22) International Filing Date:  
14 November 2005 (14.11.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10/998,392 13 November 2004 (13.11.2004) US(71) Applicant (for all designated States except US):  
METAPROTEOMICS, LLC [US/US]; 100 Avenida La Pata, San Clemente, CA 92673 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventor; and

## Published:

(75) Inventor/Applicant (for US only): BABISH, John, G. [US/US]; 508 White Church Road, Brooktondale, NY 14817 (US).

— with international search report

(74) Agent: LEVI-MINZI, Simona, A.; McDermott Will &amp; Emery LLP, 201 South Biscayne Boulevard, Suite 2200, Miami, FL 33131 (US).

(88) Date of publication of the international search report:  
9 April 2009

WO 2006/053249 A3

(54) Title: COMPOSITIONS EXHIBITING INHIBITION OF CYCLOOXYGENASE-2

(57) Abstract: The invention provides a method of treating diabetes by administering to an individual having diabetes a composition containing a hops extract. In a particular embodiment, an individual having diabetes can be administered a composition comprising a first component selected from the group consisting of alpha acids and beta acids, essential oils, fats and waxed, with the proviso that the first component and second component are not the same compound. The invention additional provides a method of treating diabetes by administering to an individual having diabetes a composition comprising a first component selected from a curcuminoid and a second component selected from an alpha acid and a beta acid.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/41018

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: A 01 N 65/00

USPC: 424/725

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 424/725

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST, STN

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	JP 83009084 B (MATSUI T), 18 February 1983 (18.02.1983), abstract.	1-52

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent published on or after the international filing date
"L"	document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search

25 April 2008 (25.04.2008)

Date of mailing of the international search report

30 MAY 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Michael V. Meller

Telephone No. 571-272-1600